

Abstract

The invention concerns polymerase chimeras which are composed of amino acid fragments representing domains and which combine properties of naturally occurring polymerases that are advantageous with regard to a particular application. It has surprisingly turned out that the domains from the various enzymes are active in the chimeras and exhibit cooperative behaviour. In addition the present invention concerns a process for the production of the chimeras according to the invention and the use of these chimeras for the synthesis of nucleic acids e.g. during a polymerase chain reaction. Moreover the present invention concerns a kit which contains the polymerase chimeras according to the invention.